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| **Activity:** | **High Rise Buildings over 18 Metres - ORA** | | | | | | | | | | |
| **Work Area / Location: Operational Incidents** | | | | | | | | | | | |
| **Likelihood of Hazardous Event:** | | | | | | 1 = Very unlikely | | 2 = Unlikely | 3 = May happen | 4 = Likely | 5 = Imminent |
| **Severity of Consequence:** | | | | | | 1 = Minor delay | | 2 = Minor injury | 3 = Up to 7 day loss | 4 = Over 7 day loss/major injury | 5 = Fatality |
| **LIKELIHOOD x SEVERITY = RISK FACTOR** | | | | | | | **RISK RATING** | | | | |
| **Risk Rating** | 1-11 = | **Low** | 12-19 = | **Medium** | 20-25 = | **High** | **LOW** | Review at least every 2 years | | | |
| **MEDIUM** | Additional controls if reasonably practicable. Review regularly | | | |
| **HIGH** | Urgent action required, where residual risk is identified in this category, all reasonably practicable controls must have been considered | | | |

| **HAZARD** | **HAZARDOUS EVENT** | | **Level of Risk**  Initial Risk without control measures | | | | **RISK CONTROLS**  (What action is necessary?) | **Level of Risk**  Residual Risk with control measures | | | |
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| (What could potentially cause harm?) | Who might be harmed | How might they be harmed?  (Most likely outcome NOT worst possible case) | **Likelihood** | **Severity of Consequence** | **Risk Factor** | **Risk Rating** | **Likelihood** | **Severity of Consequence** | **Risk Factor** | **Residual Risk Rating** |
| **Fire Spread** | FRS personnel  Other agencies  Occupants | Injury or Death by burning | **5** | **5** | **25** |  | **Knowledge**   * Buildings over 18 metres Standard Operating Procedure (SOP) and SOP Action Card * 7.2(d) and Site Specific Risk Information (SSRI)   **Equipment**   * Full firefighting kit including mid layer and outer layer jacket, over trousers, fire boots, flash hood, BA gloves and helmet * Breathing Apparatus (BA)   **Procedures**   * Identification of construction type and cladding materials during Operational Intelligence System (OIS) visits and recording on Site Specific Risk Information (SSRI) * During OIS visits – noting and reporting defective or missing fire protection measures and/or incorrect materials being used to separate compartments * Consider early evacuation if there is external fire spread or if the building is behaving in a manner not normally expected * Consider early evacuation if the fire involves lightweight structural elements * Deploy personnel in BA when operating above the Bridgehead * Identify location of fire * Information from Fire Control (FC) * Question occupants, staff and witnesses * Review alarm indicator panels and zone maps * Internal scene survey with Thermal Imaging Camera (TIC) * Use of TICs by Breathing Apparatus (BA) wearers * External scene survey with TIC * Identify the seat of the fire and check all adjacent areas * Control and extinguish fire * Early application of water to control fire growth * Attack and extinguish the fire * Contain the fire and defend protected routes * Placement of safety officers (external and on protected routes) * Consider hidden fire spread * Protect and secure evacuation routes * Deploy stairwell protection teams with gas detectors for early warning of smoke * Deploy portable smoke curtains   **Training**   * Buildings over 18 metres eLearning packages to be completed by all operational personnel every 6 months * Firefighting Tactics Guidance | **4** | **4** | **16** |  |
| **Smoke Spread** | FRS personnel  Other agencies  Occupants | Injury or death cause by smoke inhalation | **5** | **5** | **25** |  | **Knowledge**   * Buildings over 18 metres Standard Operating Procedure (SOP) and SOP Action Card * 7.2(d) and Site Specific Risk Information (SSRI)   **Equipment**   * Full firefighting kit including mid layer and outer layer jacket, over trousers, fire boots, flash hood, BA gloves and helmet * Deploy personnel in BA when operating above the Bridgehead   **Procedures**   * Consider early evacuation if there are large volumes of smoke with the potential to affect other residents * OIS SSRI and high rise initial considerations * Question occupants, staff and witnesses * Review alarm indicator panels and zone maps * Internal scene survey with TIC * External scene survey with TIC * Identify all areas affected by smoke or gases (use gas monitor) * Protect and secure the evacuation routes * Contain the smoke * Deploy portable smoke curtains to control smoke spread during operations * Deploy stairwell protection teams with gas detectors for early warning of smoke * Consider the benefit of automatic / manual smoke control equipment * Consider hidden smoke spread * Deploy smoke hoods for use by occupants when evacuating     **Training**   * Buildings over 18 metres eLearning packages to be completed by all operational personnel every 6 months * Fire Science Guidance | **4** | **4** | **16** |  |
| **Unstable Structure** | FRS personnel  Other agencies  Occupants | Injury or death caused by collapsed structures or falling masonry / structural elements | **3** | **5** | **15** |  | **Knowledge**   * Buildings over 18 metres Standard Operating Procedure (SOP) and SOP Action Card * 7.2(d) and Site Specific Risk Information (SSRI)   **Equipment**   * Full firefighting kit including mid layer and outer layer jacket, over trousers, fire boots     **Procedures**   * External scene survey * Internal scene survey * Placement of safety officers (external) to monitor building for signs of collapsed * Establish appropriate sized safety cordons * Consider potential collapse footprint * Consider appliance positioning * Secure safe access and egress routes * Re-route or provide alternative water supplies * Consider the effect of fire on building structure * Consider advice from Local Authority (LA) Building Control   **Training**   * Buildings over 18 metres eLearning packages to be completed by all operational personnel every 6 months * Fire in Buildings Guidance | **3** | **3** | **9** |  |
| **Cable Entanglement** | FRS Personnel | Injury or death caused by entanglement and inability to release oneself | **3** | **5** | **15** |  | **Knowledge**   * Buildings over 18 metres Standard Operating Procedure (SOP) and SOP Action Card * 7.2(d) and Site Specific Risk Information (SSRI)   **Equipment**   * Full firefighting kit including mid layer and outer layer jacket, over trousers, fire boots * Cable cutters on BA sets * Anti-entanglement cylinder guards fitted to BA sets   **Procedures**   * Correct use of BA procedures to avoid entanglement * Correct use of Cable cutters on BA sets to remove entanglement hazard   **Training**   * Buildings over 18 metres eLearning packages to be completed by all operational personnel every 6 months * Training in anti-entanglement procedures | **2** | **4** | **8** |  |
| **Wall Panel Failure** | FRS personnel  Other agencies  Occupants | Injury or death caused by falling panels from height | **3** | **5** | **15** |  | **Knowledge**   * Buildings over 18 metres Standard Operating Procedure (SOP) and SOP Action Card * 7.2(d) and Site Specific Risk Information (SSRI)   **Equipment**   * Full firefighting kit including mid layer and outer layer jacket, over trousers, fire boots   **Procedures**   * Identification of construction type during OIS visits and recording on SSRI * External scene survey with TIC * Use of a TIC by committed teams * Effective briefing and debriefing of committed teams * Effective communications with committed teams * Establish appropriate sized safety cordons * Placement of safety officers (external) to monitor building for panel failure or detachment * Consider work restraint during post-fire activities   **Training**   * Buildings over 18 metres eLearning packages to be completed by all operational personnel every 6 months   Fires in Buildings Guidance | **3** | **3** | **9** |  |
| **Extended Lines of Communication** | FRS Personnel | Increased risk of injury due to lack of situational awareness cause by loss of communications | **4** | **3** | **12** |  | **Knowledge**   * Buildings over 18 metres Standard Operating Procedure (SOP) and SOP Action Card * 7.2(d) and Site Specific Risk Information (SSRI)   **Equipment**   * Full firefighting kit including mid layer and outer layer jacket, over trousers, fire boots   **Procedures**   * Robust communications testing during OIS visits and recording on SSRI * Robust implementation of the ICS * Nominated radio channels * Nominate BA Communications operatives * Frequent radio checks during the incident * Deployment / activation of fixed or portable repeaters and leaky feeders * Use of appliance mobile phones * Additional resources to act as ‘runners’ * Consider confined space line communications * Familiarisation of on-site communication systems   **Training**   * Buildings over 18 metres eLearning packages to be completed by all operational personnel every 6 months * BA communications training | **3** | **3** | **9** |  |
| **Building Security** | FRS personnel  Occupants | Injury or death due to  FRS - delayed entry leading to extended periods for fire growth  Occupants – delayed exit leading to them being caught in fire or smoke | **3** | **4** | **12** |  | **Knowledge**   * Buildings over 18 metres Standard Operating Procedure (SOP) and SOP Action Card * 7.2(d) and Site Specific Risk Information (SSRI)   **Equipment**   * Full firefighting kit including mid layer and outer layer jacket, over trousers, fire boots * Breaking in gear   **Procedures**   * Identification and recording of security measures during OIS visits and recording on SSRI * Obtain keys / codes and key holder details during OIS visits and record on SSRI * Identify appropriate access and egress routes * Maintain control of access and egress routes once established * Identify safest and simplest methods of gaining entry   **Training**   * Buildings over 18 metres eLearning packages to be completed by all operational personnel every 6 months * Methods of entry | **2** | **3** | **6** |  |
| **Complexity of Internal layout** | FRS personnel  Occupants | Injury or death due to  FRS - delayed entry leading to extended periods for fire growth or losing sense of location / direction  Occupants – delayed exit due to losing sense of location / direction leading to them being caught in fire or smoke | **4** | **4** | **16** |  | **Knowledge**   * Buildings over 18 metres Standard Operating Procedure (SOP) and SOP Action Card * 7.2(d) and Site Specific Risk Information (SSRI)   **Equipment**   * Full firefighting kit including mid layer and outer layer jacket, over trousers, fire boots * Breaking in gear   **Procedures**   * Obtain and record detailed building layout, flat numbering plans and firefighting shaft and lift locations during OIS and visits and record on SSRI * Question occupants, staff and witnesses * Review on-site premises information boxes * Review alarm indicator panels and zone maps * If the fire location is uncertain, approach cautiously using protected routes if available * If travelling in lifts, take control of the lift and exit a minimum of two floors below the fire * Internal scene survey with TIC * Effective briefing and debriefing of committed teams * Use of TIC by committed teams   **Training**   * Buildings over 18 metres eLearning packages to be completed by all operational personnel every 6 months * Methods of entry | **2** | **4** | **8** |  |
| **Failure of fixed installations, engineered solutions and firefighting facilities** | FRS personnel  Occupants | Injury or death due to  Failure of fire protection measures | **4** | **4** | **16** |  | **Knowledge**   * Buildings over 18 metres Standard Operating Procedure (SOP) and SOP Action Card * 7.2(d) and Site Specific Risk Information (SSRI)   **Equipment**   * Full firefighting kit including mid layer and outer layer jacket, over trousers, fire boots   **Procedures**   * Obtain and record information on the function and operation of fixed installations during OIS visits * Consider joint inspections between operational personnel, Fire Safety Enforcement Officers (FSEO) and building managers * Make accurate plans of the location of installations and their controls * Secure support from on-site advisors * Review on-site premises information boxes * Do not operate fixed installations (on or off) without an understanding of their function and an expectation of how the building will be affected * Request attendance of an FSEO for advice on the function and operation of fire protection features * Consider alternative means of supply water to the fire sector if fire mains are defective or insufficient   **Training**   * Buildings over 18 metres eLearning packages to be completed by all operational personnel every 6 months * Fires in Buildings Guidance | **2** | **3** | **6** |  |
| **Construction or Refurbishment** | FRS personnel  Occupants | Injury or death due to  Lack of fire protection  Unexpected smoke or fire spread  Unrestricted fire spread  Structural collapse earlier than anticipated or expected | **4** | **4** | **16** |  | **Knowledge**   * Buildings over 18 metres Standard Operating Procedure (SOP) and SOP Action Card * 7.2(d) and Site Specific Risk Information (SSRI)   **Equipment**   * Full firefighting kit including mid layer and outer layer jacket, over trousers, fire boots   **Procedures**   * Secure support from on-site advisors * Review on-site premises information boxes * Caution that the building may not perform as expected * Consideration of early structural collapse * Consideration of a defensive tactical mode   **Training**   * Buildings over 18 metres eLearning packages to be completed by all operational personnel every 6 months * Fires in Buildings Guidance | **4** | **2** | **8** |  |
| **Congestion of Access and Egress routes** | FRS personnel  Occupants | Injury or death  caused by residents unable to evacuate. Due to:  restricted access and egress residents on stairwells  debris  equipment | **3** | **5** | **15** |  | **Knowledge**   * Buildings over 18 metres Standard Operating Procedure (SOP) and SOP Action Card * 7.2(d) and Site Specific Risk Information (SSRI)   **Equipment**   * Full firefighting kit including mid layer and outer layer jacket, over trousers, fire boots   **Procedures**   * Consideration of current firefighting tactics on the evacuation strategy * Consideration of current evacuation strategy on firefighting operations * Early consideration of amending the evacuation strategy to simultaneous evacuation * Early review of available resources * Consider sending a *Immediate Building Evacuation* (IBE) message, for additional resources and so FC can change their Fire Survival Guidance (FSG) * Consideration of alternative access points or routes for fire service personnel * Consider nominating multiple staircases for specific functions such as firefighting operations or evacuation * Wherever possible, firefighting operations should not restrict or create hazards on evacuation routes * Protect and secure the evacuation routes   + Deploy stairwell protection teams with gas detectors for early warning of smoke   + Deploy portable smoke curtains   **Training**   * Buildings over 18 metres eLearning packages to be completed by all operational personnel every 6 months | **3** | **3** | **9** |  |
| **Physical Workload** | FRS Personnel | Exhaustion or Heat Stress caused by over-exertion | **4** | **3** | **12** |  | **Knowledge**   * Buildings over 18 metres Standard Operating Procedure (SOP) and SOP Action Card * 7.2(d) and Site Specific Risk Information (SSRI)   **Equipment**   * Full firefighting kit including mid layer and outer layer jacket, over trousers, fire boots   **Procedures**   * Identify the safest and most direct access and egress routes * Secure and use firefighting lifts for transporting personnel, equipment and casualties * Provision of dedicated personnel for logistics, transporting equipment and casualties * Personnel to get to work from ‘safe air’ in unaffected locations, as close to the fire as possible, making effective use of fire doors and compartmentation * Rotation of personnel that are working hard * Consider provision of early reliefs   **Training**   * Buildings over 18 metres eLearning packages to be completed by all operational personnel every 6 months * BA Guidance - “Physiology and Psychology’ and ‘Welfare of BA Wearers’ | **3** | **2** | **6** |  |
| **Persons shut in lifts** | FRS Personnel | Injury or death due to being marooned in a lift without BA or firefighting media as the fire develops outside | **3** | **5** | **15** |  | **Knowledge**   * Buildings over 18 metres Standard Operating Procedure (SOP) and SOP Action Card * 7.2(d) and Site Specific Risk Information (SSRI)   **Equipment**   * Full firefighting kit including mid layer and outer layer jacket, over trousers, fire boots   **Procedures**   * Identify and record lift locations and instructions during OIS visits and record on SSRI * Secure support from on-site advisors * Review on-site premises information boxes * Secure firefighting lifts for operational use * Call other lifts to the ground to be cleared * Prioritise lift rescues if cars become stuck * Protect areas around the lift shaft from fire and smoke ingress   **Training**   * Buildings over 18 metres eLearning packages to be completed by all operational personnel every 6 months * Lifts and Escalators SOP | **2** | **4** | **8** |  |
| **Casualty Management** | FRS Personnel | Physical injury or exhaustion | **4** | **3** | **12** |  | **Knowledge**   * Buildings over 18 metres Standard Operating Procedure (SOP) and SOP Action Card * 7.2(d) and Site Specific Risk Information (SSRI)   **Equipment**   * Full firefighting kit including mid layer and outer layer jacket, over trousers, fire boots   **Procedures**   * Use firefighting lifts to transport casualties * Provide dedicated personnel for casualty retrieval * Rotate personnel that are working hard * Use casualty carrying equipment such as stretchers or carry sheets * Establish casualty clearing points in Staging Areas * Handover casualty management to North West Ambulance Service (NWAS) / Hazardous Area response Teams (HART)   **Training**   * Buildings over 18 metres eLearning packages to be completed by all operational personnel every 6 months | **3** | **2** | **6** |  |

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| **Other assessments required:** | **NOISE** | **C O S H H** | **D S E** | **Manual Handling** | **Others** |
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| **Signed Assessor:** | | **Print Name:** | | **Date:** Click here to enter a date. | |

Risk Assessment Briefing Record Sheet

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| **Risk Assessment No:** | **Activity: High Rise Buildings over 18 Metres - ORA** |
| Work Area / Location | |

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| *Signing this form constitutes a declaration that you have fully understood the contents of the briefing given* | | | | |
| **Employee Name** | **Employee Signature** | **Name of Person Giving Briefing** | **Signature of Person Giving Briefing** | **Date of Briefing** |
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